

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Nick Franco <kf2ph@bnl.gov>
Subject: [7633] 30M CW Mobile
Message-ID: <317E52A2.27ED@bnl.gov>

Hi Gang,

After recently selling my trusty mobile companion HW-8, I was going through some withdrawal. With the nicer weather coming in, I decided to put my SW-30 into the mobile. I picked up a 30 meter Hamstick vertical. I already had the mount for my 40 meter Hamstick ready and waiting. For the time being I am using a cigarette lighter plug to run the SW-30 and a Radio Shack amplified speaker for the audio. I still have my home made wooden paddle thing-a-ma-jig and the MFJ keyer. It's good to be back on CW mobile QRP. Give me a call if you hear me. The ears on this end are not as good as when stationary, with the road noise and all, but if I can hear you I'll try to work you.

I had a nice chat with North Carolina and Indiana in just the first couple of days so far. I tried and EA and ZA1AZ pile ups, but I guess that was a little aggressive for mobile QRP. I'll have to wait for the band to open a little more first. So far, propagation is not so slick in the morning drive time on the Long Island Expressway, but coming home is a different story. Some nice sigs starting to come in around 5:00 pm EDT.

Have a nice day all es 72
de KF2PH/M QRP

--

Nicholas J. Franco <>> BROOKHAVEN NATIONAL LABORATORY
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From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7655] 30M Study Again
Message-ID: <199604250130.BAA21165@chuck.dallas.sgi.com>

Gang,

Since a new group arrives on the list weekly, here is the previous post about the 30M propagation study. It is only

less than a week away until the first of May. Not much time if you have been putting off getting on 30M and don't have a rig or an antenna. :-) But there is still plenty of time to do it. See you there. I'm finding the band open and I about to get all 50 states at 0.95W. A joy to do.

Dates: May 1, 1996 0000Z to August 31, 1996 2359Z
Band: 30M (10.100 to 10.125MHz CW; 10.125-10.150 Digital)
Preferred CW range 10.115 - 10.125MHz
Why? Last year saw commercial 10KW stations on 10.106, 10.108, and 10.112 for starters, so maybe up high end of CW part will work. EU 10.116MHz QRP calling freq is in this range.

Hours: 24 hours a day

Power: QRP and QRPP levels

Purpose: Check out 30M. This is a propagation study. Not a contest. Everyone starts out at zero. You get bragging rights for your accomplishments. You make up your own quantitative measure: WAS count, DXCC count, WASTP, best miles/watt, qrp-l members worked, beacons heard, most QSL collected, Your goals and your challenges. Experiment with antennas. Look for K4TWJ. Look for NN1G. Anyone. The list boggles the mind.

No schedules, no announcements, and no fox hunts please.
Every man, woman, and child for themselves.
No complicated or even simple scoring mechanism to clutter the desk or to look up.

My goals: AK, DE, ND, and **RI** (you hear me Lee?)
Inside joke from last year. Lee being W5TEH in RI.

Who Plays: Anybody. There will be a quiz at the end.

This will run concurrent with the 10M propagation study.
This is not a contest. This is to get you on the air.

Novices and Tech+ do 10M. Upgrade ASAP. We want you on 30M with us. We miss you.

For those new to the list. We are not a contest club.
It may seem like it with all the things going on.
It may have seemed like it with the foxhunt, but truly

it is all friendly interplay to generate on the air activities. Keeps some from getting bored. :-)
We can't play pro-sports so we do the next best thing - beat on each other. It's all mental gymnastics and exercise.

Be sure to send to LISTSERV@LEHIGH.EDU the following in the body/text of the message

RUN QRP-L X GETNR callsign

where callsign is the one you signed up on the list with. You'll get back a permanent number and you can exchange this on the air with fellow QRP-L members.

Don't give up on propagation, create it. :-)

Come see what I found out during FIDM in Dayton.
It's very interesting and more data to follow.

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
30M 1996 Study Qs=000 States=00 Confirmed=00 DX=00

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: dgf@netcom.com (David Feldman)
Subject: [7638] 40-9er mobile? REALLY WEIRD
Message-ID: <199604241707.KAA05815@netcom17.netcom.com>

adams@chuck.dallas.sgi.com (chuck adams) writes,

>I recommend that you go to Radio Shack and get the CD to cassette

I have used this trick for a long time with very good success, except in my **STUPID** 95 Jeep Cherokee whose radio doesn't couple very well to the cassette-module head. Anyway, I stick a pen into the cassette opening, push down on the body of the cassette-module, and this usually gives good coupling.

I've also tried one of those little gizmos that play thru the FM radio, and that worked pretty well too but I would occasionally forget to turn off the power (battery) for the adapter, and it would run down. Still if your car doesn't have a cassette player, it is an alternative. Does interesting things when you transmit, tho!

Now,

This leads me naturally to the urge to run the 40-9er mobile!

73 Dave WB0GAZ dgf@netcom.com

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Jerry <jfelts@rapidcity.com>
Subject: [7616] 40-9ER-SMOKE--QSO!!!
Message-ID: <199604240346.VAA14581@host1.rapidcity.com>

First there was the kit. Then the smoke (fried choke). And now my first qso. After I don't know how many days of playing with it I finally made a qso; WS0L in West Creek, Colo. He gave me a 549 sig report. Have not got the distance report yet. Once again TNX GUYS for the 40-9er!

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: randy foltz <rfoltz@wsunix.wsu.edu>
Subject: [7652] Alaska on 40M
Message-ID: <Pine.OSF.3.91.960424170332.32060A-100000@unicorn.it.wsu.edu>

At the suggestion of Tim, AB50U, I'll post this to the group.

On Monday night I installed the KC-1 in the 40A also with the new panel. It sure looks great. First full QSO was with AL7KZ in Juneau. He was 599 and gave me a 589. It must have been fairly close to that because we talked 15-20 minutes. After we signed, an N5 in Texas started calling CQ. Joe, the AL7KZ, gave him a call, but the Texan went to a VA3 station instead.

Chuck, maybe you've given up too soon on 40.

See ya'all on Saturday from the old hydraulic mica mine in Idaho.

72,
Randy
WB5QMP ARCI QRP-L NORCAL NWQRP
Moscow, ID

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: "david (d.) burniston" <davidgb@bnr.ca>
Subject: [7649] CASCADE For Sale.....
Message-ID: <"15981 Wed Apr 24 16:17:46 1996"@bnr.ca>

Hi,

My father asked me to post his Cascade for sale. It is assembled and has been used for a number of QSO's on 75M/ 40M.

He says he had fun building it, but now he'd like to find it a new home.

Asking price is \$180.00 US plus shipping. Kit cost was \$169 US.

If you're interested, please contact him...

Gord Burniston
VE3AKK
519 352-3712
EST time zone.

... Dave
VE3LFO

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: PDouglas12@aol.com
Subject: [7626] Dayton List reminder
Message-ID: <960424102435_520888899@emout08.mail.aol.com>

Guys,

Non Dayton conventioners, please forgive the bandwidth, but turnover on this list is large enough to justify an occasional reminder:

If you plan to go to the Dayton Hamvention and/or the Four Days in May Symposium in Dayton, you should subscribe to the Dayton list (send email to : listserv@lehigh.edu and in body [subject line ignored] just type : subscribe Dayton-L

You are missing a ton of important info on the Hamvention if you aren't subscribed.

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: "david (d.) burniston" <davidgb@bnr.ca>
Subject: [7635] EASYTRAX Libraries
Message-ID: <"14883 Wed Apr 24 12:21:05 1996"@bnr.ca>

Hi All...

Anyone know of a source of library files for EASYTRAX that has components related to RF type boards as opposed to digital?

...Dave
VE3LFO

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: BERGESON@ppcc.colorado.edu
Subject: [7651] For Sale
Message-ID: <01I3XCHNJLAQ000448@VAXF.COLORADO.EDU>

FOR SALE: QRP Plus transceiver. New and unused. I have the box,
manual, power cord, and microphone. \$500.00

Hal Bergeson, W0MXY
Colorado Springs, CO
Phone: (719) 471-0238

I would prefer that inquiries come by telephone,
evenings, after 8:30 PM MDT.

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: clifton w sikes <csikes@brightok.net>
Subject: [7622] Hello; Thanks to KK5R0; Fox hunting
Message-ID: <199604241228.HAA00710@sooner.brightok.net>

Hello to all,
This is my first post to the list, as I have only been on line for a few days. I live in a rural area, and have not had access until two weeks ago. That brings me to my second point. I have been reading the list second handed, thanks to Vernons willingness to share. He has been copying the digest to floppy for me, for SIX months. He is definitely the kind of friend to have. I have been enjoying qrp for about two years on a sometimes basis with my HW-8 and Oak Hills sprint, for 30m. But let me tell

you, the fox hunts were the most fun I have had in my three years as a ham. WB4ZKA, Mike was my first fox, and my last of the hunting season. What a class guy! I hope to work many more of you on the bands, and maybe meet some of you at Hamcom in June.
72, Clif AB5UA

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Jeff Gold <JMG@tntech.edu>
Subject: [7623] Kits, worth the price?
Message-ID: <01I3WV20LJW298835H@tntech.edu>

After recently reading someone's friend's posting about the Ten Tec 2 meter kit I got to thinking:

I remember years back spending many hours walking around Heathkit stores. I would salivate at all the incredible kits they had, everything from ham gear, stereo equipment to televisions. I remember feeling that I would be able to purchase an assembled version less expensively than they were charging for their kits. I wondered why anyone would bother building the kits. After building my first kit, I knew instantly the answer to the question. When I consider the hours of pleasure I spend building, I consider most quality kits to be bargains. I find that I almost always will choose to operate my kit rigs over my powerful, feature packed commercial HF rigs.

I believe the \$199 price for this type of quality kit is a bargain. I look forward to operating the rig for many years to come. On the down side is the rig doesn't presently have a DTMF microphone (which I plan to get hold of when they are available). The rig does not offer S/Rf metering, or any scanning functions. The last minor complaint is that the VFO does not circle around from the top to the bottom edge of the band. All but the DTMF microphone are only minor problems for me and in no way change my opinion of this kit. I recommend it very highly.

I have operated it many hours on the air.. mostly at the 1 watt (It has the optional amp) setting and have had nothing but very positive comments. I have tested all but the packet feature. I hope to be able to get the connectors for it this weekend. I am considering using it for my station rig. That way the DTMF is not a consideration, and the memories and features for what I use in the shack are perfect.

Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: JCoote@aol.com
Subject: [7639] Mobile CW (again)
Message-ID: <960424141325_477288202@emout12.mail.aol.com>

I've done some mobile CW work- QRO and QRP. I had to try it, but it is not a regular M/O for me.

My equipment is an Icom IC-735 mounted vertically on a metal plate between the bucket seats of my full-sized Ford E-250 XL van. The van is a "panel" type, so no windows or extra passenger seats. I use an Icom AH-2 auto-tuner, mounted right at the base of a two-inch Antenna Specialists ball mount and spring. (The tuner is inside the van). The whip is mounted on the rear right side of the van, as high up as possible. I can use different whips, such as Hustler whips or Mobile-Mark "Heliwhips"; as well as a 15' whip I made for mobile "at rest" applications. In addition, I can remove the whip and set up a 50' to 200' random wire for high-angle (NVIS) or better efficiency on the lower bands.

As far as keying, I can strap a straight key to the (fold-down) arm rest and that works well. In practice, mobile CW QSOs are different. It is best to let the other party know you're mobile so they will understand why you have to "AS AS" a lot, or keep it brief. My van is automatic transmission and power steering so I don't have to deal with gear changes and steering the monster with both hands. Earphones help a lot while mobiling. Road noise and wind tend to kill weak CW and SSB in a speaker. Some states like the People's Republic Of California have highway patrols who will cite you for earphones/headsets (they should go after loud boom-boxes instead), so be careful.

I found my mobile CW operations to be no more hazardous than a conversation with a passenger or operating other equipment in my van, but I'm careful and have adequate reflexes. What can be unsafe and distracting is a poor installation (as seen in more than one hamshack). Have the radio where you can see it and use it. Will the equipment go flying if you brake or accelerate? No alligator clips, loose cables to snag the brake or gas pedals or things to go intermittent. In my opinion, having an automatic antenna tuner (Coupler) prevents a lot of the distraction involved with cranking a manual tuner.

73, Jay
WB6AAM
jcoote@aol.com

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [7631] More 40-9er questions
Message-ID: <Pine.OSF.3.91.960424091224.14938A-100000@duke.usask.ca>

Last night I took my 40-9er over to a friends place in order to test it. He has a QRP explorer that we used to test the transmitter portion of the 40-9er. As soon as I turned on the 40-9er there was a tone in the Explorer. My friend thought I might have the keyer shorted out but the keyer works. When I press the keyer the audio cut out in the 40-9er (like it should) and the tone changed in the explorer. I was using the two wire antenna suggested in the QRP Quarterly article. Is it normal for the 40-9er to give off so much RF noise when not transmitting?

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+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
+-----+
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From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: bachmann@ari.net
Subject: [7620] MXM simple transceiver IF alignment
Message-ID: <199604240436.AAA16561@mtolympus.ari.net>

Stumbled upon a nice way to get the 4 Mhz fundamental for aligning the IF in the MXM transceiver...and you get a crystal calibrator out of it.

I just started on a MXM 30 meter transceiver kit from the group buy in February. You put it together in steps and check out each section as it is put together. The IF section is first so I put that section together and looked at the alignment procedure. It requires a 4 mhz signal source (I don't have a digital transceiver...that would make it real easy) and recommends a crystal oscillator, temporarily using one of the crystals that comes with the kit. I don't like taking things apart, so I tried using an Autek RF1 as the precision RF generator. It was a little too drifty to make me comfortable but I got it in the ball park by (repeatedly) zero

beating it on a Drake R-8. I looked at the crystal oscillators in the 1996 ARRL handbook and started thinking about building the oscillator in Figure 27.6 but I was already waiting for parts on a xtal calibrator....

As luck would have it, the xtal calibrator on page 26.14 of the 1996 ARRL Handbook uses a 4 mhz crystal into a pair of nand gates (74ALS00) for the basic oscillator. Since money is no object :-) I went all out and got the \$3.62 EF Johnson air variable trimmer(2.4-24.5 pf) from Mouser (running the total cost into the \$15 price range without a box), intending to parallel it with a NPO cap to get the frequency right (the ARRL circuit calls for a 5-60 pf trimmer). As long as I'm shooting for the moon on this one, I should have spent more than \$1.50 on the crystal:-) The circuit board came from FAR and the parts placement diagram came from the technical secretary as mentioned in the handbook. It uses two divide by 2s and a divide by 10 to get the 4 mhz down to 100khz and then two more divide by 2s to get to 50 and 25 khz. The neat thing is that there is a little jumper that you can loop up like a test point between the oscillator nand gate and the divider, ideal for clipping a test lead/antenna to get the 4 mhz source. I got it all together except for the parallel NPO on the trimmer. It was solid as a rock at 4.000230 with full capacitance on the trimmer. I think I can put 10 pf in parallel with the trimmer and set it right on 4.000000 Mhz and settle for whatever the error is in the counter (after it zero beats with WWV). Whatever it turns out to be, I'm sure it will be better than trying to use the Autek as a precision RF generator.

About the calibrator: The circuit board is 2.4 X 2.6 inches, it seems like there is a lot of space on the board...I wish it was a little smaller, it won't fit in those nice little cast metal boxes that JDR sells for \$3.95. I couldn't find a 74ALS90 so I had to use an LS version. With the 78L05, the 74ALS00, the two 74ALS74s, and a 74LS90, it draws about 25 ma out of a 9v alkaline battery. Somehow I thought it would draw less but I don't know if this is high or low for a calibrator. I imagine that the calibrators that use fewer chips are even easier on the battery and fit in those nice little cast metal cases.

If anyone has any observations or recommendations about xtal calibrators or a place to get good trimmers, please drop me a note.

73
Rich Bachmann
N3SLR

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Arthur Moe <kb7ww@aracnet.com>
Subject: [7656] Need E-Mail add.

Message-ID: <199604250307.UAA17419@trapdoor.aracnet.com>

Can some one tell if Jim Gates WA6GER has a E-MAIL Address??

thanks
art

AT THE END OF THE OREGON TRAIL

Arthur Moe	ARRL - Life
A.R.S. KB7WW	SMIRK #733
QTH: Oregon City, Or.	QRP ARCI
kb7ww@aracnet.com	QRP-1 #290
artmoe@agora.rdrop.com	

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7621] NN1G GM-40 XCVR
Message-ID: <199604240516.FAA19509@chuck.dallas.sgi.com>

Gang,

Just got a GM-40 going and on the air.

Outta the box called CQ and got an N2 in Brockport, NY
for a distance of 1,249 miles.

Second QSO was in Rowland Heights, CA for a distance
of 1,220 miles.

See previous reviews of 20M and 30M versions.
I have the step-by-step instructions that I wrote
up for any of the versions available and they are
on ftp.lehigh.edu and 40M will go on tomorrow.
It's too late to try any fancy stuff tonight. :-)

Thanks to NN1G for another great rig. The guy
never rests. GM-xx series for \$75 for PC board
and on board parts. You add connectors, three

linear pots, and case and you are on the air
with an antenna and keyer.

13 toroids, but not difficult. You'll notice
that everyone seems to be replacing inductors
with toroids on the 40-9er. Must be a reason
for my liking them. :-) See next issue of
72 newsletter for some explanation.

Seven days to start of 30M. Two nights ago
I picked up NV. AK, DE, ND, and RI to go.
Of course, none of this counts for a hill of
beans in two weeks. See signature at EOT.

dit dit

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Chuck Adams (K5FO CP-60) adams@sgi.com
30M 1996 Study Qs=000 States=00 Confirmed=00 DX=00

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: JCoote@aol.com
Subject: [7634] North American QRP Freqs List (by KE2DI)
Message-ID: <960424121330_197983791@emout12.mail.aol.com>

I saw this list on packet, and thought I would re-type it for the QRP List.
It was originally sent by Keith, KE2DI@WB2VPH.#WNY.NY.USA.NOAM

1810.....CW
1843.....Europe
1910.....SSB
3560.....CW
3579.....CW, colorburst xtals
3686.....CW Novice alternate, using computer timebase xtals
3710.....CW Novice
3985.....SSB
7040.....CW
7030.....CW Europe
7060.....Europe
7110.....CW Novice
7285.....SSB
10106....CW
14060....CW
14285....SSB, also S.P.A.M. AM'ers freq.
18080....CW
18130....SSB
21060....CW

21110....CW Novice
21385....SSB
24910....CW
24950....SSB also 12 meter calling frequency
28060....CW
28110....CW Novice
28360....SSB Novice/technician Suggested by SPRAT-N7WIM
28385....SSB Novice/Technician
28885....SSB
28965....AM (SSB) - CB conversion channel #1 (Channels follow CB plan, but 1
Mhz up)
50125....National calling freq
144200..National calling freq

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: ar722@cleveland.freenet.edu (Donald K.Philbin)
Subject: [7642] postscript...gzip...solutions!
Message-ID: <199604241834.0AA14013@owl.INS.CWRU.Edu>

From: ar722@cleveland.freenet.edu
Subject: Postscript Take two!

Many thanks to Larry East (W1HUE) for the web address for
RoPS.. the windows postscript viewer (and printer).

For those of us that have a browser that will not allow us
to download files without the .Z extension and who are to
lazy to FTP... I have a solution. gzip! Gzip allows the
extraction of gzipped files as well as those with the .Z
extension. Gzip can be found at:

<ftp://prep.ai.mit.edu/pub/gnu/gzip-msdos-1.2.4.exe>

or

<ftp://garbo.uwasa.fi/pc/unix/gzip124.zip>

Today I downloaded a .ps.z file... extracted it with gzip
(see the readme.doc file for details) and viewed and printed
it with RoPS. Slick.

Donald K. Philbin
OZ2DKP & KD6TK

--

D.K. Philbin, Fulbright Instructor	Birkerod Gymnasium og HF
Home: Hestkobjev 10	Sondervangen 56, Postboks 220
3460 Birkerod, Denmark	3460 Birkerod, Denmark
Tel: (45) 42-81-13-52	Fax: (45) 45-82-02-57

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Larry East <LVE1@inel.gov>
Subject: [7648] Printing "unstructured" PS files with RoPS
Message-ID: <2.2.16.19960424202256.25bfff70@134.20.32.17>

>From a recent posting:

> when I downloaded
>the pixie2 schematic file and the pixie2 WD8AAU's file they
>worked well with gzip but roPs reported them as undocumented
>files and would print them but not allow the zoom function
>to work. I have the printouts but they are small and not to
>scale in the case of the pixie2 board and overlay. Have you
>had this problem?

Think that should be "unstructured" rather than "undocumented"...

See the "Printing a page or pages" section of the RoPS program's help file -- you can put the program into "permanent zoom" by setting LPI to an appropriate value in the rops.ini file located in the /windows directory. You can also play around with the value assigned to ScreenFreq for best rendering of half-tone pictures (see "Initialization file options" section of help file). I found that a value of 56 works well with my VGA display and LaserJet printer.

Setting LPI=280 as recommended for a 300 dpi printer, the pixie2.ps and nn1g20.ps files each fit on an 8.5 x 11 page quite nicely when printed. However, it will require some playing around with the LPI value if you want to exactly reproduce the size of the original -- as for example when printing a pc board. RoPS converts a Postscript file to a bitmap image and then transfers the image to the printer -- it does not convert directly to the printer. Oh well, ain't nuttin' perfect...

By the way -- don't forget that RoPS is "shareware" and not "freeware"...

72, Larry W1HUE/7

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Brad Mugleston <bmug@gwl.com>
Subject: [7647] QRP to the field
Message-ID: <199604241919.AA22494@gp-nixon.gwl.com>

Just to let every one know there will be some NOVICE/TECHS on this weekend so
PLEASE check those freqs.

CQC will have at least 3 operators on these bands, some will be on a 35 foot
sail boat so why don't you check the bands every so often.

Thanks,

de KB0ROL, Brad

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Scott Cranston <cranston@zk3.dec.com>
Subject: [7628] QRP++ SSB Audio
Message-ID: <9604241427.AA30849@falalpha.zk3.dec.com>

NOTE: the following ONLY applies to the 'New' QRP+ (aka QRP++)

I have an upgraded Index Labs QRP+. The SSB power output is nicely increased,
however the quality of the audio suffers. I *always* get comments on the
QRP++ audio... "I though I didn't have you tuned in, but I did", "sounds like
long path", "way too much processing", "its ok, but takes some getting used
to". To me, the audio is ok for the quick in/out exchange of a contest or a
DX pileup and actually has a distinctive punch. But, for just yacking, its
annoying. As a point of reference, good SSB audio to me is that from my
Collins KWM2A or S-Line and a D104 mike (A D10 for a bit more SSB punch :^).

In any event, I talked to Bruce at Index Labs and there are 2 things you
can do:

1. This change is going into all current QRP++ production units:

On the audio board (2nd board down about 1/2" behind the power control pot) R5 is 100K, it is being changed to 2.7K.

The VOGAD is allowing the mike to pick up ambient noise... such as room echos. This change reduces the range so that the VOGAD will maintain mike gain with the mike up to about 12" from your mouth.

[I made this change, did not effect SSB power output.... also did not improve SSB audio quality.]

2. This change is not being made by Index Labs... your mileage may vary.

On the audio board, R76 controls the amount/level of speech processing. R76 is currently 100 ohms. Bruce said that the value of R76 can range up to 500 ohms, at which there would be no speech processing.

[In series with the existing 100 ohm resister, I tried individually adding values of 150, 220 and 330 ohm resisters. Each iteration I listened on another receiver and also measured SSB power output.

I've currently have the 330 ohm resister in series (430 ohm total). The audio is still definitely processed, but not as objectionable as origionally... but also still not good "yacking quality" SSB audio. SSB power output is unchanged.

Unless the processing tapers off wicked fast between 430 ohms and 500 ohms I don't think 500 ohms will make much more difference??? I got tired of the take-it-apart-put-it-back-together routine so for now I'll leave the additional 330 ohm resister in place.]

Want a nice mike cheap for the QRP++.... the Icom HM70 is on sale at AES for \$34.95 + shipping (normally \$60+). It has a right angle 1/8" plug on it which I thought worked out nice too. The HM70 is the same as the other Icom mike recomended in the manual for the QRP++ except its a little bigger... nicer to hold.

For those that want to hook up a terminal unit (to do RTTY, etc) or SSTV via the QRP++ mike input the folowing, per Bruce at Index Labs, is how to do it:

```

                                10uf +
RTTY/SSTV/etc >-----)|-----+--> to QRP++ mic audio input
audio                   |
```



```

|
\
/ 2.7K
\
/
|
|
+
          / PTT switch closure on the terminal unit
/      or STTV interface, etc
+
|
|
+--> to QRP++ mic ground connection

```

Scott, KB1NW
cranston@zk3.dec.com

PS: For SSTV info surf on up to: <http://www.icanect.net/~rlehman>
I use 'WinPix Pro' which uses a SoundBlaster (tm) and runs
under Win 3.1 or Win95.

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Allen Jones <ajones@adsnet.com>
Subject: [7650] QST on CD-ROM
Message-ID: <199604242051.PAA06839@alice.adsnet.com>

Gang . . . While paging through the April issue of QST I noticed an ad for the ARRL 1995 Periodicals CD-ROM. It has the entire contents of every 1995 issue of QST, QEX and NCJ including all illustrations, photos and advertisements.

It was delivered by UPS today. Really neat! Now if I could just get ARRL to go back and digitize the prior 20 or so years I could get rid of a couple hundred pounds of magazines I've been saving.

You will need a 386 or better with VGA video preferably at 800x600 resolution and 256 colors. IBM compatibles only. No MAC version. Cost to ARRL members is \$19.95 plus \$4 S/H. \$29.95 to non members.

You can search any of the publications on a keyword you select. Pump up

your ego by keying in your call and seeing how many times you get a hit. :-)
Search on subjects like antennas, QRP, etc.

73 de Allen, K9DZE

=====
Allen Jones K9DZE ajones@adsnet.com
Michigan City, Indiana EN61nq
ARCI G-QRP NorCal QRP-L #112
=====

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: svein@eci1.ucsb.edu (Svein Vetti)
Subject: [7654] Super efficient class E amp
Message-ID: <9604250032.AA04182@lily.ucsb.edu>

Have any of you any experience with class E amplifiers ? A grad student here at USCB is doing some research on the subject. I am not sure how the amp works, but according to him it has a theoretical efficiency of 100%. I spice simulation he has reach 80 %. Not bad....

I am going to try the design on a low power VHF transmitter (100mW), but I have problems finding a cheap BJT (150Mhz) that can take $I_c=200mA$. Motorola has some, but they are over \$ 4 (Newark).

Any suggestions ?

-Svein

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: "Taylor Greg" <GTAYLOR@ag-eco.tamu.edu>
Subject: [7625] Ten Tec SWR/Power Meter?
Message-ID: <27A677155D5@ag-eco.tamu.edu>

This has my interest as it evidently also covers 2m for which I'm also presently in the need for a pwr/swr meter. Looking for opinions on assembly and functioning - HF and VHF.....how does it stack up with the OHR meter (HF)?

TNX, Greg, KD4HZ

Dr. Gregory S. Taylor !MAIL: 110 Dairy Science Building

Extension Program Leader for ! College Station, TX 77843-2124
Community Development !VOICE: 409-845-4445
Texas Agricultural Extension Service!FAX: 409-847-8744
Texas A&M University System !EMAIL: Reply or g-taylor4@tamu.edu

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Brad Mugleston <bmug@gwl.com>
Subject: [7645] Thanks
Message-ID: <199604241916.AA22462@gp-nixon.gwl.com>

I want to thank everyone that wrote me about the G5RV antenna. If I can pull it all together Ill try to report on the "BEST", or at least the most common ways this antenna is being used.

Thanks again,

de KB0ROL, Brad

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Brad Mugleston <bmug@gwl.com>
Subject: [7646] Travel
Message-ID: <199604241932.AA22912@gp-nixon.gwl.com>

Gang,

I just go back from my 3 states in 3 fun filled days trip. I have a question, is there a list some where that identifies hotels/motels that have either windows that open or balconies?

The Embassy Suites in Tampa, FL. has a small balcony (about 2 feet deep) where you could drop a long wire. The Holiday Inn in Calverton, MD does not give access to the outside world.

If I would have known about Tampa I would have taken my Explorer II and my tuner, but from past trips and not being able to even get out on 2M I left without a radio ;^(.

If there isn't such a list, and everyone thinks we should start one, I might be talked into putting one together.

de KBØROL, Brad

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: JCoote@aol.com
Subject: [7640] Want TV ribbon J info
Message-ID: <960424141333_477288290@emout16.mail.aol.com>

Hello all,

Recently I saw some formulae and a Basic program on the list for making J antennas from 300-ohm TV line. The formulae and program seemed to be very complicated to those of us who are math-challenged or just want the antenna.

I wonder if anyone has simplified this so that the only variables to be plugged in are: 1/Frequency and 2/Velocity factor of the 300 ohm poly or foam line? Surely there are simpler formulas or programs.... ?

73, Jay
WB6AAM

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: svein@eci1.ucsb.edu (Svein Vetti)
Subject: [7653] Windsensor -the final solution the final solution
Message-ID: <9604250019.AA03992@lily.ucsb.edu>

Thanks to all of you that helped me with the windsensor. Here is what we ended up with :

The cheapest sensor we found was from Davis Instruments. It measures both speed and direction. It cost \$ 120 and can be ordered from (part no 7911):

Davis Instruments
3465 Diablo Ave,
Hayward CA 94545
ph 1-510-732-7814
fax 1-510-670-0589
sale 1-800-678-3669

You can get a whole windmeasuring system for about the same price.....

For those of you that are into digital stuff, the March issue of the Circuit Cellar Ink magazine (page 53) has a nice description on who to use the sensor

with a microcontroller. The magazine can be (back) ordered on :
(860) 875-2199.

For those of you that want to keep the price down, and have time to do it -
build your own sensor. It is mainly a rotating magnet with a hall effect sensor,
and a potentiometer to measure the wind direction. Hall effect sensors are
described in Electronics World + Wireless World, July 1994.

-Svein

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7637] Re: 30M CW Mobile
Message-ID: <199604241645.QAA20347@chuck.dallas.sgi.com>

Nicholas,

If you are using some rig like the SWL-30 or whatever mobile,
I recommend that you go to Radio Shack and get the CD to cassette
player critter (about \$15) that allows you to take the output
from the rig (if you have a stereo plug or can convert to same)
and play it into you car stereo system. Gives you, in some
cases, about 100W of audio out. Kinda anti-QRP, but we usually
only worry about RF levels. :-)

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
30M 1996 Study Qs=000 States=00 Confirmed=00 DX=00

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [7632] Re: CW Mobile
Message-ID: <Pine.SUN.3.90.960424075410.5333A-1000000@vortex.sage.dri.edu>

On Tue, 23 Apr 1996 kf8at@detroit.ampr.org wrote:

>

> CW can be safe too, but one has to be very careful!

Yep. Same goes for talking to others in the car, looking at
all the road signs and all the other things we do while driving.

> I do know of a ham that ran quite a bit of CW in his drive to and from

> work. He became a SK in an auto crash and it is suspected that he may not
> have been paying as much attention to his driving as he should have because he
> may have been in the middle of a QSO at the time of the accident.

This is typical knee jerk reactions. Because he MIGHT have been distracted
by CW.....? He might also have been distracted by sneezing, a bird flying
in front of him, an external loud noise.....almost anything COULD have
contributed to his crash.

CW takes no more attention than anything else we do while driving and
much less than dialing the numbers on a cell phone. But my point here
is not to defend mobile CW but to suggest reserving blame to facts
and not to what might have been. (We could overload the whole internet
with all the "might have beens"!)>

>
> Don't mean to be a killjoy, but driving is a serious activity!

I agree.

I remember a few years ago when many trucking companies baned CB's
from their trucks because they "caused" too many accidents. What
was happening was that when a driver has an accident, he, or she,
gets the blame and has to look for another job.

So to get around that, drivers started using the excuess that they
"dropped" the mic to the CB and were trying to get it off the floor
and ran off the road. Now they had a reason for the accident and
didn't loose their jobs!

The trucking indursty finally saw through the scam, but not before
lots of bad publicity for radios in general. For years, most truck
accidends that were caused by things like falling asleep or trying
to read a book while driving were chaulked up to CB's!

And one other point to ponder, how many hams have become SK's in
auto accidents while not operating CW? Who knows, CW MIGHT be
safer.....and how about QRP CW? Anyone killed while operating
QRP?

Thanks, 73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17....ARRL....NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: GREGOIRE@endor.com (ERNEST GREGOIRE)
Subject: [7627] Re: Gel/Cell Charger Alert
Message-ID: <199604241438.KAA45780@nss2.CC.Lehigh.EDU>

Chuck Adams wrote:

>6/12 Volt DC Batter Charger/Eliminator
>
>Ideal for charging ni-cad, gel cell or lead acid
>batteries
>>Emco Division
>Components Specialities Inc.
>Lindenhurst, NY 11757
>
>Cost \$12.95 from Altex
>Imagine my surprise when I saw a reading
>of 15.75V DC!!!
> but I hate to think what would have
>happened if I had not attended to them for a day
>or so. :-(Bummer.

Hello Gang,

This is the same situation with the "Power Station", the voltage regulation is poor , and as the battery is approaching "full", the 15 volts in, grows to as much as 17 volts accross the battery. I had an ht plugged into the "Power Station", and burned out the 12v adaptor. I was lucky, the HT is ok.

This prompted me to build a Jade controller,for my solar powered station. It has excellent regulation but costs \$126. with all the options and enclosure. It can also charge a battery from a solar panel and from an A.C. outlet simultaniously.

de AA1IK N.E.-QRP-C. # 202 (Lead by example, It is better to)
 QRP-L member #95. (pull a string than it is to push it.)

Ernie Gregoire
RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@ENDOR.COM
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: GREGOIRE@endor.com (ERNEST GREGOIRE)
Subject: [7629] Re: Gel/Cell Charger Alert
Message-ID: <199604241505.LAA72643@nss2.CC.Lehigh.EDU>

>To: QRP-L
>From: GREGOIRE@ENDOR.COM (ERNEST GREGOIRE)
>Subject: Re: Gel/Cell Charger Alert

>
>Chuck Adams wrote:
>>6/12 Volt DC Batter Charger/Eliminator
>>
>>Ideal for charging ni-cad, gel cell or lead acid
>>batteries
>>>Emco Division
>>Components Specialities Inc.
>>Lindenhurst, NY 11757
>>
>>Cost \$12.95 from Altex
>>Imagine my surprise when I saw a reading
>>of 15.75V DC!!!
>> but I hate to think what would have
>>happened if I had not attended to them for a day
>>or so. :-(Bummer.

>
>Hello Gang,

>
>This is the same situation with the "Power Station", the voltage regulation
>is poor , and as the battery is approaching "full", the 15 volts in,
>grows to as much as 17 volts accross the battery. I had an ht plugged
>into the "Power Station", and burned out the 12v adaptor. I was lucky,
>the HT is ok.

>
>This prompted me to build a Jade controller,for my solar powered station.
>It has excellent regulation but costs \$126. with all the options and
>enclosure. It can also charge a battery from a solar panel and from
>an A.C. outlet simultaneously.

>
>
>

de AA1IK N.E.-QRP-C. # 202 (Lead by example, It is better to)
 QRP-L member #95. (pull a string than it is to push it.)

Ernie Gregoire

RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@ENDOR.COM
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Bob Patten <n4bp@bcfreenet.seflin.lib.fl.us>
Subject: [7644] Re: Help with HamCalc
Message-ID: <Pine.3.89.9604241542.A29616-01000000@bcfreenet.seflin.lib.fl.us>

On Mon, 22 Apr 1996, Raymond Sommers wrote:

> On Mon, 22 Apr 1996, Bob Patten wrote:
>
> > Then, from your C: root directory, type
> > "VE3BAT" to start HamCalc. The path information is imbedded in all the
> > small BASIC programs, so it MUST be correct to work.
>
> I think that should be VE3ERP.BAT to start the program, at least that is
> the way my copy works.

Correct, was thinking .BAT (batch file) when I mistyped it...

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: ka0yos@arn.net
Subject: [7615] Re: International Callbook Listings on-line (was Need QSL info
-IZ land)
Message-ID: <199604240340.WAA05316@arnet.arn.net>

...
>
>>Where are you finding the international listings on line?
>>Kevin, WB5RUE
>>wb5rue@amsat.org
>>muenzlerk@uthscsa.edu
>>

> Check out this [http:-----|](http://www.systemtechnik.tu-ilmenaw.de/ham/hamqsl.html)
> |
>
> <http://www.systemtechnik.tu-ilmenaw.de/ham/hamqsl.html>
>
> LOTS OF CALLBOOKS!!!!!! de Rich
>
...

<http://www.buck.com>

72,
Joe ka0yos

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: "MSgt Cameron C.R. Bailey" <CBAILEY@pamdt.ang.af.mil>
Subject: [7624] re: Kits, worth the price?
Message-ID: <heH8+m+XT1A@PAMDT.ANG.AF.MIL>

Jeff,

One thing you can't put a price on is the knowledge
gained from troubleshooting the thing. Especially when
you goofed by installing wrong resistors, diodes backwards,
etc. Not that it ever happens. ;^)

de kt3a

Cam Bailey
SOGNET LAN Administrator (Banyan)
211 Engineering Installation Squadron
Fort Indiantown Gap (Annville) PA
DSN: 491-8737 Comm: 717-861-8737 FAX: 8268

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: Dale Anderson <dalea@artemis.fc.hp.com>
Subject: [7630] Re: Kits, worth the price?
Message-ID: <199604241507.AA209088447@artemis.fc.hp.com>

>After recently reading someone's friend's posting about the Ten
>Tec 2 meter kit I got to thinking:

> . . .

>On the down side is the rig doesn't presently have a DTMF
>microphone (which I plan to get hold of when they are available).

Just a suggestion. For the interim, until Ten Tec gets around to selling a DTMF Mic, you can use one of those "Pocket Tone Dialers" sold by Radio Shack. It's a DTMF keypad that you place over your mic. It is designed to produce tones for systems (phone) that haven't DTMF capability. Their least expensive one (43-145) is \$16.99 and the next one up (43-146) has 33 memories and lists for \$24.99. This info is from their catalog. ...just a thought. Heck, you could get really creative and integrate the thing into the radio's cabinet if you wanted to. I'm considering building one of those kits and doing just that!

Good luck, es 72/73
-Dale, KB0VCC

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7636] Re: More 40-9er questions
Message-ID: <199604241640.QAA20327@chuck.dallas.sgi.com>

Brian et.al.,

The question has arisen several times about the 40-9er.

Yes, it has a continuous osc. going and will radiate nearby, so if you have a station listening to it closeby it may sound like it is transmitting without a key down.

Note that the level will go up when you key the rig and it may also change frequency also. This is typical.

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
30M 1996 Study Qs=000 States=00 Confirmed=00 DX=00

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996

From: Steven Wilson <randyw@crl.com>
Subject: [7643] Re: More 40-9er questions
Message-ID: <Pine.SUN.3.91.960424114917.21214A-100000@crl6.crl.com>

Yes this is normal. You are hearing the oscillator, when you key it shifts about 100 hz. de stan ak0b

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [7641] RE: Three days to QTTF!
Message-ID: <960424135735.2421b56f@carib.vf.mmc.com>

David,

I will pick the bagels up on my way to the field so they may even be warm!
Now if that doesn't make you drool, you ain't human...

My goal is to get to the site early enough to check into the 40 mtr QRP net that meets Saturday mornings at 8 am. Being a late sleeper, I normally don't make the net. Even so, there probably won't be time to put up a mast and dipole before the net, so it'sll probably jsut be the old Hamstick.

And Walt, if you're listening, let me know when you get your St Louis Tuner. Since you are #146 and I'm 161, you'll probably get yours a day or two before mine shows up!

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com
home: n2cx@voicenet.com

From owner-qrp-l@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: ka0yos@arn.net
Subject: [7619] Re: Tuning capacitors
Message-ID: <199604240422.XAA07415@arnet.arn.net>

At 06:36 PM 4/23/96 -0700, Wayne Barnhart wrote:

>

>

>On Tue, 23 Apr 1996, Steven Wilson wrote:

>

>> The orginial design of the St Louis tuner used the plastic poly variables

>> and they worked very well for QRP power levels. I have used them in
>> receivers and in the oscillator stages of transmitters (VX0, VF0) with
>> excellent results. I would prefer using air variables, but have found
>> the poly variables (which are still available new) to work very well.
>
>Hi Steve. Where might one procure such devices. I only have a few
>catalogs around and none of them list variables, except of course the
>circuit board stuff.
>
>Wayne WB7WHI
>Spokane, Wa.
>
Mouser still sells new air variables (800)346-6873 or <http://www.mouser.com>

I don't work for them, but

72,
Joe ka0yos

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996
From: "John D. Spittle" <jds@vcn.bc.ca>
Subject: [7617] Re: Where am I?
Message-ID: <Pine.3.89.9604232018.A21355-01000000@opus.vcn.bc.ca>

Try operating +/-1KHz on SSB and you'll lose a lot of friends. Even at
+/-50Hz I often receive caustic comments from others on the BC QRP Net!

Cheers Derry VE7QK (a genuine "old codger")

On Tue, 23 Apr 1996, Kerry W. Miller wrote:

> I think we have been a little spoiled by digital freq readouts on our rigs
> these days (oh, man, I'm not old enough to sound like an old codger...), I
> know I have. Even with digital readout, the accuracy is pretty relative,
> although the new rigs are awfully close. I still sometimes operate a set of
> Drake Twins, the analog dials are pretty close when I calibrate it on that
> band, maybe within a couple of KHz. My old HW-101 was doing good to be
> within 5-10 KHz. The only time it really mattered is when I had a sked.
>
> All this rambling to say that, especially when the vxo will only go 5-8 KHz,
> a close guess is good enough. It's not really heresy to put down 7.042 on a
> QSL card or in the log when it may have actually been 7.041!
>
> Have fun and don't sweat the small stuff! CU at QRPTTF and FD!
> 73,

> Kerry

```
>
>          \\\
>          (  )
>          ( oo )
>          |-----oo00--()--00oo-----|
>          | Kerry Miller                Royse City, TX |
>          |
>          |                WD5ABC                |
>          |-----|
>          |
>          |                kmliller@flash.net        |
>          |
>          |
>          |
>          |
>          |
>          |
```

From owner-qrp-1@Lehigh.EDU Wed Apr 24 22:34:44 1996

From: "M. E. Monninger" <markem@primenet.com>

Subject: [7618] Re: Where am I?

Message-ID: <1.5.4.32.19960423211457.002ef008@mailhost.primenet.com>

In all this discussion of digital vs. analog read-outs, no one (that I have seen, anyway) has brought up the difference between accuracy and precision. The digital displays are certainly more precise but how much more accurate are they, really? Probably somewhat but don't automatically assume that just because it's digital that it's more accurate...freq or anything else, including DVM's. Precise, yes...accurate, maybe.

Mark AA7TA